

260-7  
139934  
AMERICAN CYANAMID COMPANY  
PIGMENTS DIVISION  
PINEY RIVER PLANT

January 9, 1969  
1970

To: Piney River Office

Copy To: Mr. J. F. Hopkins  
Mr. J. M. McConaghy

Att'n. Of: Mr. S. A. Lamanna

Subject: Dilution of 98%  $H_2SO_4$   
with Recovered Acid<sup>4</sup>  
to form 93% Acid

It has been proposed 98%  $H_2SO_4$  be diluted with Recovered Acid to produce 93% acid for use at Digestion. It is recommended three new tanks and a heat exchanger be installed at Digestion for mixing 93% acid, storage of 93% acid, storage of Recovered Acid, and cooling 93% acid.

The No. 1 400 Ton Acid Storage Tank at the Acid Plant can be used to store 98%  $H_2SO_4$  with the installation of a small steam heating coil to keep the 98% acid from freezing during the winter. A new pipeline would be installed from the 400 Ton Acid Storage Tank to Digestion where it would enter the new 25,000 gallon Mixing Tank. The heat exchanger would remove the heat of dilution evolved when the 98%  $H_2SO_4$  was diluted to 93%. The heat exchanger could be the same type as is presently used in the Acid Plant which uses raw water for cooling. A new Recovered Acid Storage Tank and a new 93% Acid Storage Tank are necessary at Digestion to protect against acid production delays.

*Richard L. Bennett*

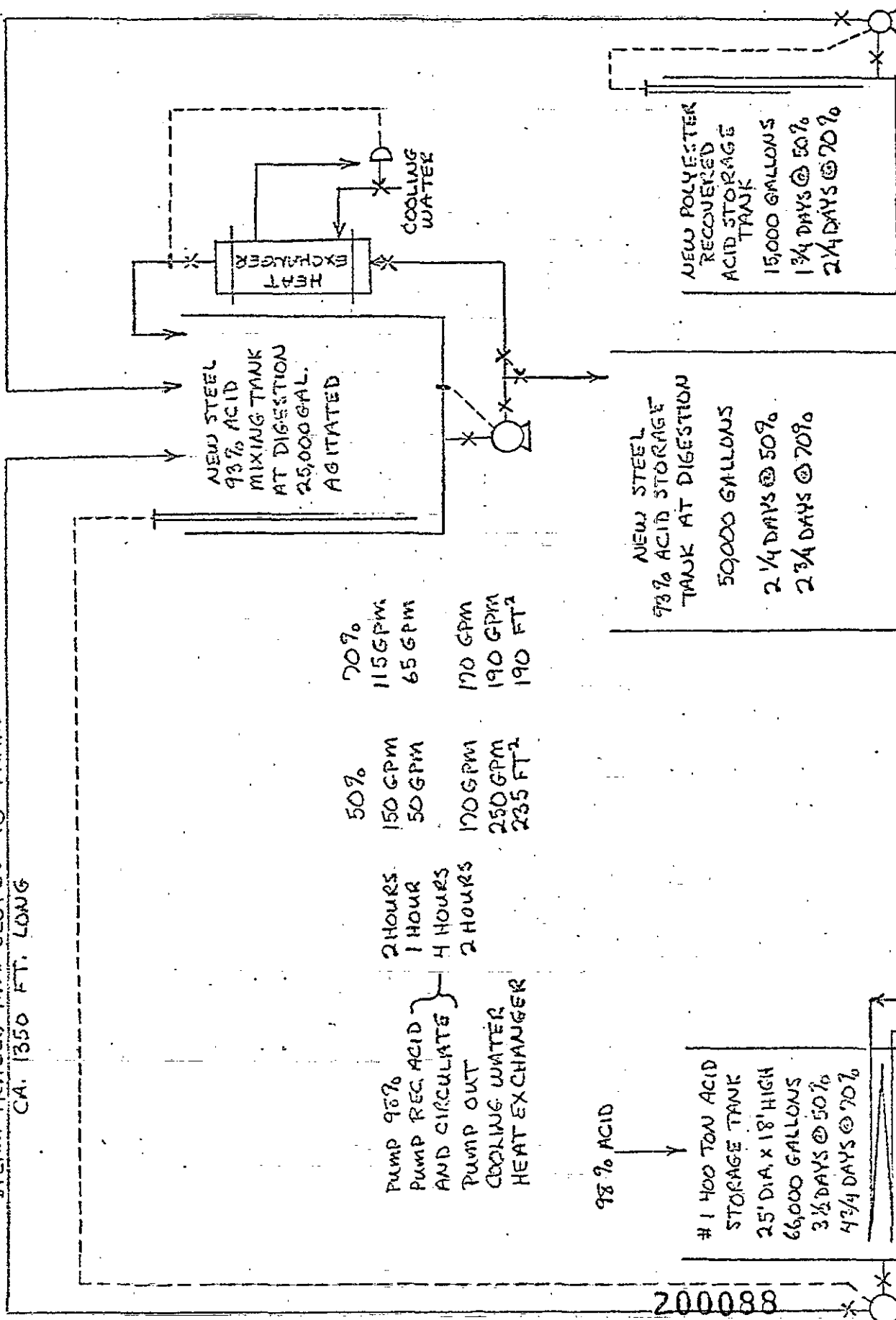
Richard L. Bennett

RLB/jes

Attachment

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STEAM TRACED AND SLOPED TO DRAIN  
CA. 1350 FT. LONG



Use 9 tons 50% } per day  
" 25" 70%

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